```
ARSDATA V5.0j: 08/03/2000 09-01-2000 05:09:36----------
LEVEL-0: 04-13-2001 17:22:42 NGN_SEAS V6.0 04/09/2001 EXE DATE:04/10/2001 10:51----------
LEVEL-0: INPUT FILE: c:\Neph_Reprocessing\Level_A\More_Level_A\GRSM1_N.003 09/12/2000 21:19----------
LEVEL-1: 04-13-2001 17:25:32 NGN_SEAS V6.0 04/09/2001 EXE DATE:04/10/2001 10:51----------
LEVEL-1: Rayleigh= 10.636 Span Mult= 7.1 QA Search Flags:1 1----------
LEVEL-1: NEPHCOMMON LIBRARY VERSION:04/09/2001----------
LEVEL-1: INPUT FILE: c:\Neph_Reprocessing\Level_0\FINAL_LEVEL_0\More_FINAL_LEVEL_0\GRSM1_N0.003 04/13/2001 17:25----------
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SITE	YEARMMDD	JD	HHMM	INS	BSP	PREC	V	A	RAW-M	RAW-SD	#	N/A	SD/M	DEL	MAX	RH	0123456789mPM0T	YINTER	SLOPE	AT	AT-SD	#	AT-PR	CT	CT-SD	#	CT-PR	RH	RH-SD	#	RH-PR	N/A
GRSM1	20000601	153	0000	025	58	0.150	0		238.84	7.10	11	-99.0	10.0	50	5000	90	0B1000000000012	-154.0	0.93	20.18	0.35	12	1.00	20.15	0.32	10	1.00	75.35	1.99	12	2.00	XXXX
GRSM1	20000601	153	0100	025	64	0.150	0		245.45	3.36	11	-99.0	10.0	50	5000	90	0B1000000000011	-154.7	0.93	19.59	0.25	12	1.00	19.81	0.26	11	1.00	78.02	1.29	12	2.00	XXXX
GRSM1	20000601	153	0200	025	58	0.150	0		239.87	5.27	12	-99.0	10.0	50	5000	90	0C0000000000000	-154.9	0.93	19.58	0.37	12	1.00	19.59	0.25	12	1.00	77.39	2.31	12	2.00	XXXX
GRSM1	20000601	153	0300	025	59	0.150	0		240.88	11.88	12	-99.0	10.0	50	5000	90	0C0000000000000	-155.2	0.93	19.44	0.65	12	1.00	19.73	0.43	12	1.00	78.33	4.10	12	2.00	XXXX
GRSM1	20000601	153	0400	025	55	0.150	0		236.96	7.97	12	-99.0	10.0	50	5000	90	0C0000000000000	-155.4	0.93	19.16	0.38	12	1.00	19.20	0.26	12	1.00	78.90	2.43	12	2.00	XXXX
GRSM1	20000601	153	0500	025	54	0.150	0		235.65	1.57	12	-99.0	10.0	50	5000	90	0C0000000000000	-155.7	0.93	19.42	0.10	12	1.00	19.47	0.08	12	1.00	77.63	0.47	12	2.00	XXXX
GRSM1	20000601	153	0600	025	53	0.150	0		235.24	3.15	12	-99.0	10.0	50	5000	90	0C0000000000000	-155.9	0.93	19.96	0.37	12	1.00	20.28	0.49	12	1.00	76.43	1.02	12	2.00	XXXX
GRSM1	20000601	153	0700	025	53	0.150	0		235.33	2.39	10	-99.0	10.0	50	5000	90	0A2000000000023	-156.1	0.93	21.56	0.52	12	1.00	21.88	0.35	9	1.00	72.19	0.91	12	2.00	XXXX
GRSM1	20000601	153	0800	025	54	0.150	0		236.68	3.25	12	-99.0	10.0	50	5000	90	0C0000000000000	-156.0	0.93	22.36	0.18	12	1.00	22.14	0.08	12	1.00	71.68	0.96	12	2.00	XXXX
GRSM1	20000601	153	0900	025	53	0.150	0		234.82	6.44	12	-99.0	10.0	50	5000	90	0C0000000000000	-155.7	0.93	22.73	0.40	12	1.00	22.16	0.22	12	1.00	72.21	2.60	12	2.00	XXXX

Field	**Description**
SITE	Site Abbreviation
YYYYMMDD	Date (4-digit year/month/day)
JD	Julian Date
HHMM	Time using a 24-hour clock in hour/minute format
INS	Nephelometer Serial Number
BSP	b_{sp} (Mm^{-1})
PREC	b_{sp} Estimated Precision (%/100)
V	b_{sp} Validity Code (0 = valid, 1 = interference, 2 = invalid, 9 = suspect)
A	b_{sp} Interference Code[1]
RAW-M	Raw Nephelometer Hourly Average (Counts)
RAW-SD	Standard Deviation of Raw Nephelometer Average (Counts)
#	Number of Data Points in Hourly Nephelometer Average
N/A	(Not Used)
SD/M	Standard Deviation/Mean Interference Threshold
DEL	b_{sp} Rate of Change Interference Threshold
MAX	Maximum b_{sp} Interference Threshold
RH	Relative Humidity Interference Threshold
0123456789mPMOT	Composite Nephelometer Code Summary[2]
YINTER	Y-intercept of Calibration Line Used to Calculate b_{sp}
SLOPE	Slope of Calibration Line Used to Calculate b_{sp}
AT	Average Ambient Temperature (°C)
AT-SD	Standard Deviation of Hourly AT Average
#	Number of Data Points in Hourly AT Average
AT-PR	Estimated Precision of Ambient Temperature
CT	Average Nephelometer Chamber Temperature (°C)
CD-SD	Standard Deviation of Hourly CT Average
#	Number of Data Points in Hourly CT Average
CT-PR	Estimated Precision of Chamber Temperature
RH	Average Relative Humidity (%)
RH-SD	Standard Deviation of Hourly RH Average
#	Number of Data Points in Hourly RH Average
RH-PR	Estimated Precision of Relative Humidity
N/A	(Not Used)

[1] b_{sp} Interference Code:

Condition	Letter Code													
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
RH > RH threshold	x		x		x		x		x		x		x		x
b_{sp} > maximum b_{sp} threshold	x	x			x	x			x	x			x	x	
SD/M > uncertainty threshold			x	x		x	x				x	x	x	x	
$\triangle b_{sp}$ > delta threshold								x	x	x	x	x	x	x	x

Z Weather observation between two other weather observations.

Threshold values may be different for each site.

[2] Composite Nephelometer Code Summary:

0123456789	Nephelometer diagnostic code (internal use)
m	Number of missing data points
P	Number of power failure codes
M	Number of manual QA invalidation codes
O	Number of Level-0 invalidated data points
T	Number of times non-serial data were used

Level-1 Validated Nephelometer Data File Format